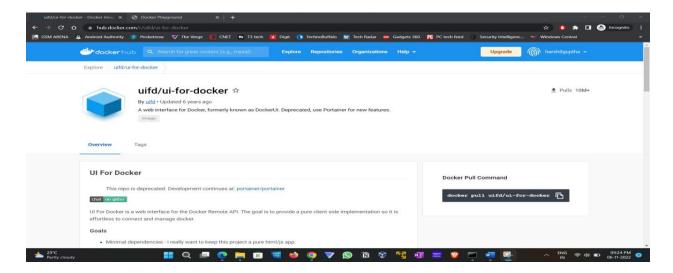
#### **ASSIGNMENT - 4**

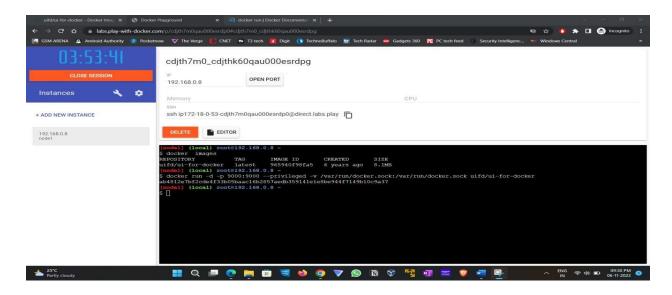
Assignment date	06 November 2022
Student name	KARTHIKEYAN B
Student roll no	711719104040
Team ID	PNT2022TMID31589

# 1.Pull an Image from docker hub and run it in docker playground.

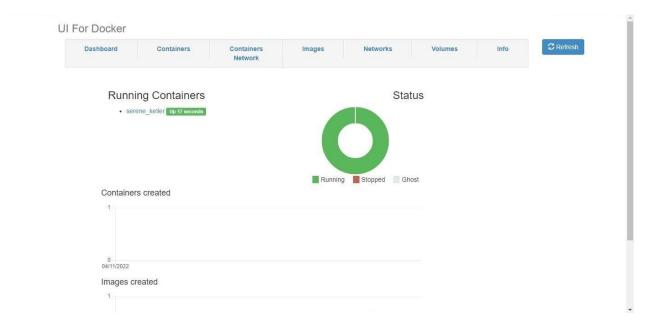
docker pull uifd/ui-for-docker docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker



## **Docker playground:**



#### **Docker UI:**



2.Create a docker file for the job portal application and deploy it in Docker desktop application.

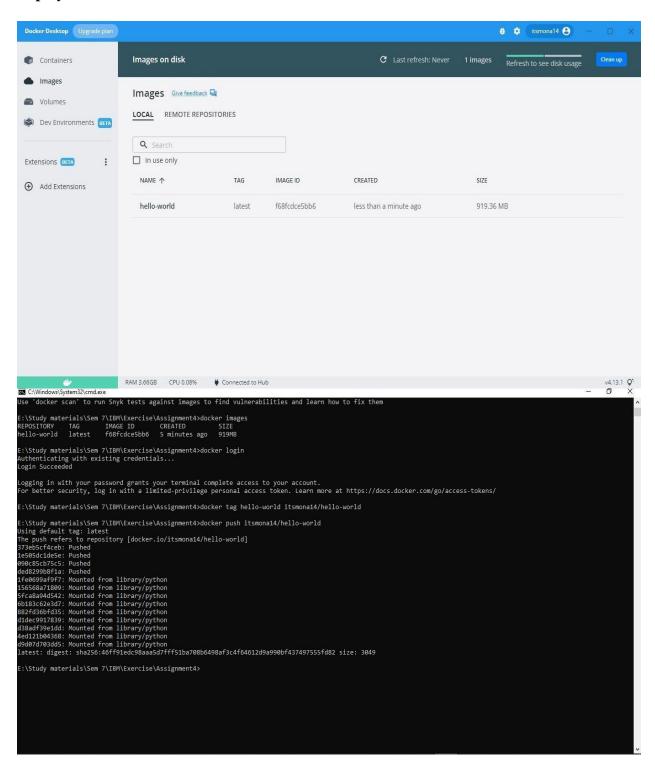
## **DockerFile**

```
Dockerfile - Notepad
File Edit Format View Help
FROM python:3.8
WORKDIR /app
ADD . /app
COPY requirements.txt /app
RUN python3 -m pip install -r requirements.txt
EXPOSE 5000
CMD ["python", "app.py"]
```

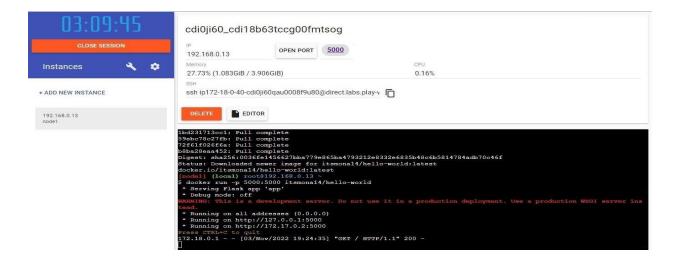
#### **Bulid Docker image**



## **Deploy it on Docker hub**

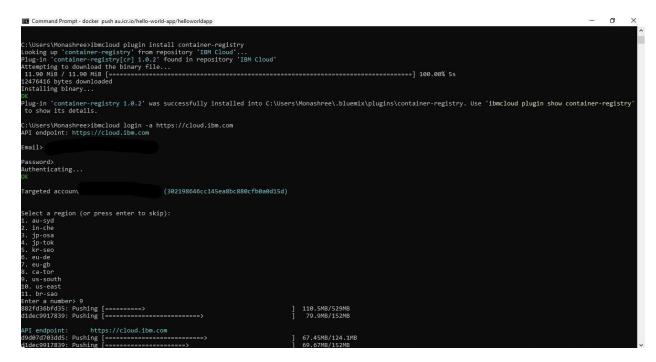


## Tested it using Docker playground

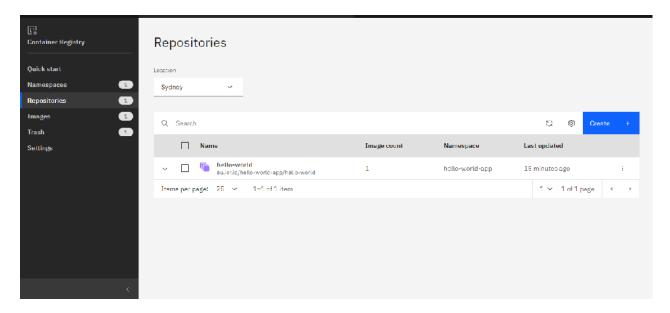


# 3. Create a IBM container registry and deploy hello world app or job portal app.

My image link: au.icr.io/hello-world-app/hello-world



```
E:\Study materials\sem 7\tBM\Exercise\Assignment4>docker tag hello-world au.icr.io/hello-world-app/hello-world
E:\Study materials\Sem 7\tBM\Exercise\Assignment4>docker tag hello-world-app/hello-world
Using default tag: latest
The public refers to repository [au.icr.io/hello-world-app/hello-world]
Beach refers to refers to repository [au.icr.io/hello-world-app/hello-world]
Beach refers to refers t
```



# 4.Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

https://raw.githubusercontent.com/itsmona14/IBM-Assignment-cloud/main/deployment.yaml

```
apiVersion: v1kind: Service metadata:
   name: hello-world-deploymentspec:
ports:
- port: 5000
   targetPort: 5000selector:
```

app: hello-world

\_\_\_

apiVersion: apps/vlkind: Deployment metadata:

name: hello-world-deploymentspec:

replicas: 1selector:

matchLabels:

app: hello-worldtemplate:

metadata: labels:

app: hello-worldspec:

containers:

- name: hello-world

image: au.icr.io/hello-world-app/hello-worldimagePullPolicy: Always

ports:

- containerPort: 5000

